

WHAT IS CLAIMED IS:

1 1. A fault monitoring method of a commodity management
2 radio communicating apparatus in which plural portable radio
3 communication terminals in a commodity management system manage
4 commodities by communicating with an inventory controller via a
5 radio communication base station, said fault monitoring method
6 comprising:

7 a step of automatically executing a test of a radio
8 communication section in said portable radio communication
9 terminals when a number of retrying times of radio communication
10 between said portable radio communication terminals and said
11 radio communication base station exceeds a predetermined number
12 of times; and

13 a step of displaying a fault of said radio communication
14 section on a display section of said portable radio communication
15 terminals when said fault occurs.

1 2. The fault monitoring method of the commodity management
2 radio communicating apparatus according to Claim 1, wherein a call
3 time interval of retrying said radio communication between said
4 portable radio communication terminals and said radio
5 communication base station is set longer than an average
6 communication time of said radio communication between said
7 portable radio communication terminals and said radio
8 communication base station in said commodity management system.

1 3. The fault monitoring method of the commodity management
2 radio communicating apparatus according to Claim 1, wherein said

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3 test for said radio communication section is executed after
4 checking that said radio communication between each said portable
5 radio communication terminal and said radio communication base
6 station is vacant continuously in a case out of an execution
7 prohibiting time zone in said commodity management system.

1 4. The fault monitoring method of the commodity
2 management radio communicating apparatus according to Claim 3,
3 wherein said test for said radio communication section is executed
4 after passing a predetermined time by returning to a check of a
5 vacant state in said case out of said execution prohibiting time
6 zone in said commodity management system when said radio
7 communication between each said portable radio communication
8 terminal and said radio communication base station and is waited
9 for until said vacant state.

1 5. The fault monitoring method of the commodity
2 management radio communicating apparatus according to Claim 3,
3 wherein said test for said radio communication section is executed
4 after passing a predetermined time by returning to a check of said
5 execution prohibiting time zone of said test in a case in said
6 execution prohibiting time zone in said commodity management
7 system and is waited for until out of said execution prohibiting
8 time zone.

1 6. The fault monitoring method of the commodity
2 management radio communicating apparatus according to Claim 4,
3 wherein said test for said radio communication section is executed
4 after passing a predetermined time by returning to a check of said

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5 execution prohibiting time zone of said test in a case in said
6 execution prohibiting time zone in said commodity management
7 system and is waited for until out of said execution prohibiting
8 time zone.

1 7. A storage medium storing a fault monitoring program
2 to cause a computer to carry out a fault monitoring method of a
3 commodity management radio communicating apparatus in which
4 plural portable radio communication terminals in a commodity
5 management system manage commodities by communicating with an
6 inventory controller via a radio communication base station, said
7 fault monitoring method comprising:

8 a step of automatically executing a test of a radio
9 communication section in said portable radio communication
10 terminals when a number of retrying times of radio communication
11 between said portable radio communication terminals and said
12 radio communication base station exceeds a predetermined number
13 of times; and

14 a step of displaying a fault of said radio communication
15 section on a display section of said portable radio communication
16 terminals when said fault occurs.

1 8. A fault monitoring program to cause a computer to carry
2 out a fault monitoring method of a commodity management radio
3 communicating apparatus in which plural portable radio
4 communication terminals in a commodity management system manage
5 commodities by communicating with an inventory controller via a
6 radio communication base station, said fault monitoring method
7 comprising:

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8 a step of automatically executing a test of a radio
9 communication section in said portable radio communication
10 terminals when a number of retrying times of radio communication
11 between said portable radio communication terminals and said
12 radio communication base station exceeds a predetermined number
13 of times; and

14 a step of displaying a fault of said radio communication
15 section on a display section of said portable radio communication
16 terminals when said fault occurs.

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